

FIG.1

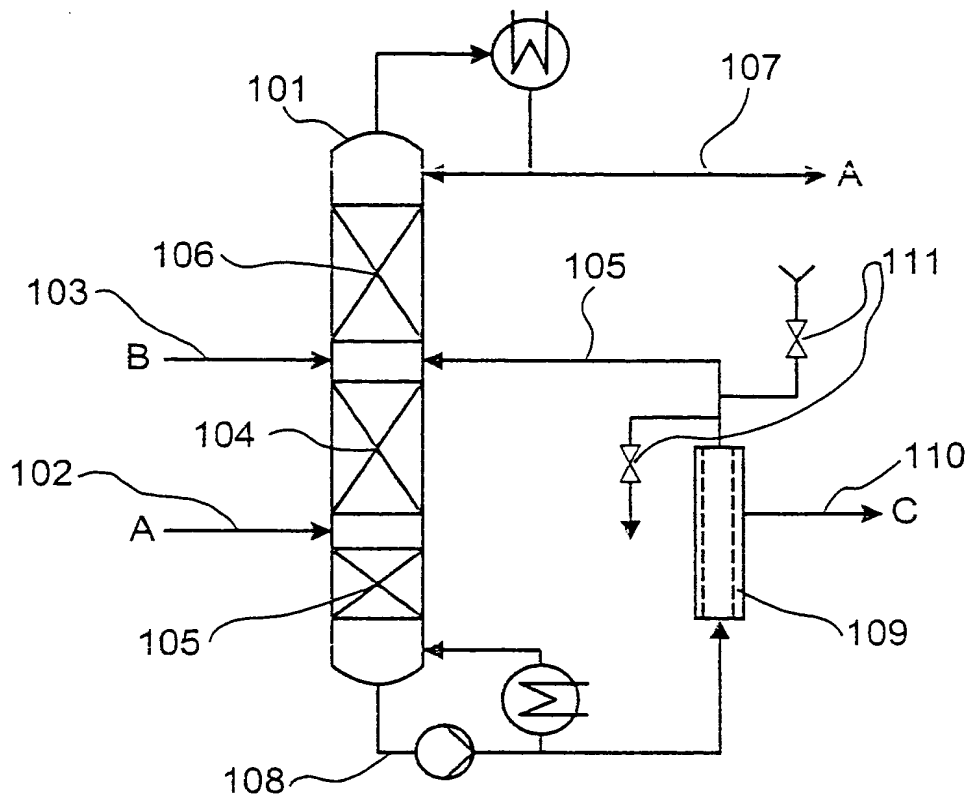
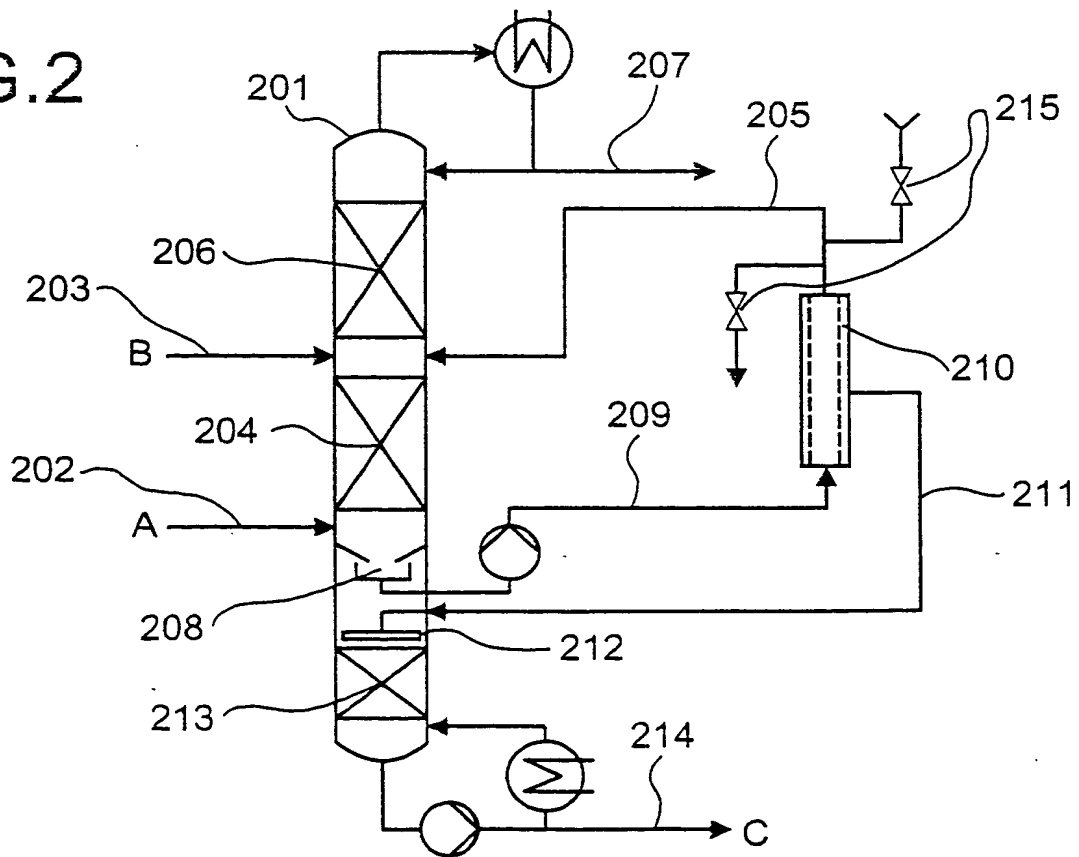


FIG.2



The diagram illustrates a chemical process system. A vertical reactor (301) contains several trays (306, 317, 308, 316, 313). Feed stream A (304) and feed stream B (303) enter the reactor. A recycle stream (309) from the bottom (312) passes through a heat exchanger (310) and a pump (302) before entering the reactor. A purge stream (318) is drawn from the top (305). The bottom product (314) is pumped through a heat exchanger (314) and a pump (302) to exit as stream D. The top product (307) exits as stream A.